

Geotechnical Engineering Consultants

Earthworks and Foundations Observation

Soils and Construction Materials Testing Laboratory

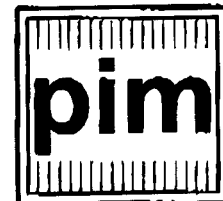
January 24, 2008

Q-2

Sattar Lodhi, Ph.D.
USNRC – Region 1
475 Allendale Road
King of Prussia, PA 19406

Fax (610) 337-5269 (1-page)

Email: asl@nrc.gov



RE: AMMENDMENT TO MATERIALS LICENSE:
52-24908-02 FOR PIM ENGINEERING LABORATORY, INC.
COTO LAUREL, PUERTO RICO

Dear Doctor Lodhi:

03032940

The following serves as a transmittal for all the documents related to our request for an amendment to our NRC material license. This as requested by Dr. Lodhi during a telephone conversation held on January 22, 2008. The documents include Form NRC 313 and NUREG's 1556 Appendix M.

Furthermore, we want to confirm that PIM owns twelve (12) nuclear gauges manufactured by CPN International Model CPN 131.

This concludes our transmittal for this subject. In case you have any doubt regarding these matters, please feel free in reaching us at your earliest convenience.

Cordially,

José Luis Irizarry Rosa, MCE, PE, RSO
President
PIM Engineering Laboratory, Inc.
Coto Laurel, Puerto Rico

141659

NMSS/RGN1 MATERIALS-002

3009 San Cristóbal Avenue
Coto Laurel, Puerto Rico 00780-2808
Tel. 787-848-2075, Fax 787-848-1562
E-mail: jlipim@jlipim.com

Urb. Sultana
54 Tenerife Street
Mayagüez, Puerto Rico 00680
Tel 787-805-2075, Fax 787-805-1562
E-mail: mail@pimgeo.com

NRC FORM 313
(10-2005)
10 CFR 30, 32, 33,
34, 35, 38, 39, and 40

U.S. NUCLEAR REGULATORY COMMISSION

APPLICATION FOR MATERIALS LICENSE

APPROVED BY OMB: NO. 3160-0120 **EXPIRES: 10/31/2008**
Estimated burden per response to comply with this mandatory collection request 4.4 hours. Submittal of the application is necessary to determine that the applicant is qualified and that adequate procedures exist to protect the public health and safety. Send comments regarding burden estimates to the Records and FOIA/Privacy Services Branch (T-5 F53), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by Internet e-mail to InfoCollecta@nrc.gov, and to the Desk Officer, Office of Information and Regulatory Affairs, NEOB-10202, (3160-0120), Office of Management and Budget, Washington, DC 20503. If a means used to impose an information collection does not display a currently valid OMB control number, the NRC may not conduct or sponsor, and a person is not required to respond to, the information collection.

INSTRUCTIONS: SEE THE APPROPRIATE LICENSE APPLICATION GUIDE FOR DETAILED INSTRUCTIONS FOR COMPLETING APPLICATION. SEND TWO COPIES OF THE ENTIRE COMPLETED APPLICATION TO THE NRC OFFICE SPECIFIED BELOW.

APPLICATION FOR DISTRIBUTION OF EXEMPT PRODUCTS FILE APPLICATIONS WITH:

DIVISION OF INDUSTRIAL AND MEDICAL NUCLEAR SAFETY
OFFICE OF NUCLEAR MATERIALS SAFETY AND SAFEGUARDS
U.S. NUCLEAR REGULATORY COMMISSION
WASHINGTON, DC 20555-0001

ALL OTHER PERSONS FILE APPLICATIONS AS FOLLOWS:

IF YOU ARE LOCATED IN:

ALABAMA, CONNECTICUT, DELAWARE, DISTRICT OF COLUMBIA, FLORIDA, GEORGIA, KENTUCKY, MAINE, MARYLAND, MASSACHUSETTS, NEW HAMPSHIRE, NEW JERSEY, NEW YORK, NORTH CAROLINA, PENNSYLVANIA, PUERTO RICO, RHODE ISLAND, SOUTH CAROLINA, TENNESSEE, VERMONT, VIRGINIA, VIRGIN ISLANDS, OR WEST VIRGINIA, SEND APPLICATIONS TO:

LICENSING ASSISTANCE TEAM
DIVISION OF NUCLEAR MATERIALS SAFETY
U.S. NUCLEAR REGULATORY COMMISSION, REGION I
475 ALLENDALE ROAD
KING OF PRUSSIA, PA 19408-1416

IF YOU ARE LOCATED IN:

ILLINOIS, INDIANA, IOWA, MICHIGAN, MINNESOTA, MISSOURI, OHIO, OR WISCONSIN, SEND APPLICATIONS TO:

MATERIALS LICENSING BRANCH
U.S. NUCLEAR REGULATORY COMMISSION, REGION III
2443 WARRENVILLE ROAD, SUITE 210
LISLE, IL 60532-4352

ALASKA, ARIZONA, ARKANSAS, CALIFORNIA, COLORADO, HAWAII, IDAHO, KANSAS, LOUISIANA, MISSISSIPPI, MONTANA, NEBRASKA, NEVADA, NEW MEXICO, NORTH DAKOTA, OKLAHOMA, OREGON, PACIFIC TRUST TERRITORIES, SOUTH DAKOTA, TEXAS, UTAH, WASHINGTON, OR WYOMING, SEND APPLICATIONS TO:

NUCLEAR MATERIALS LICENSING BRANCH
U.S. NUCLEAR REGULATORY COMMISSION, REGION IV
611 RYAN PLAZA DRIVE, SUITE 400
ARLINGTON, TX 76011-4005

03032940

PERSONS LOCATED IN AGREEMENT STATES SEND APPLICATIONS TO THE U.S. NUCLEAR REGULATORY COMMISSION ONLY IF THEY WISH TO POSSESS AND USE LICENSED MATERIAL IN STATES SUBJECT TO U.S. NUCLEAR REGULATORY COMMISSION JURISDICTIONS.

1. THIS IS AN APPLICATION FOR (Check appropriate item)

A. NEW LICENSE

B. AMENDMENT TO LICENSE NUMBER 52-24908-02

C. RENEWAL OF LICENSE NUMBER _____

2. NAME AND MAILING ADDRESS OF APPLICANT (Include ZIP code)

PIM Engineering Laboratory, Inc.
3009 San Cristobal Avenue
Coto Laurel, Puerto Rico 00780-2808

3. ADDRESS WHERE LICENSED MATERIAL WILL BE USED OR POSSESSED

4. NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION

José L. Irizarry-Rosa

TELEPHONE NUMBER

(787) 848-2075

SUBMIT ITEMS 5 THROUGH 11 ON 8-1/2 X 11" PAPER. THE TYPE AND SCOPE OF INFORMATION TO BE PROVIDED IS DESCRIBED IN THE LICENSE APPLICATION GUIDE.

5. RADIOACTIVE MATERIAL
a. Element and mass number; b. chemical and/or physical form; and c. maximum amount which will be possessed at any one time.

6. PURPOSE(S) FOR WHICH LICENSED MATERIAL WILL BE USED.

7. INDIVIDUAL(S) RESPONSIBLE FOR RADIATION SAFETY PROGRAM AND THEIR TRAINING EXPERIENCE.

8. TRAINING FOR INDIVIDUALS WORKING IN OR FREQUENTING RESTRICTED AREAS.

9. FACILITIES AND EQUIPMENT.

10. RADIATION SAFETY PROGRAM.

11. WASTE MANAGEMENT.

12. LICENSE FEES (See 10 CFR 170 and Section 170.31)

FEE CATEGORY	AMOUNT ENCLOSED \$
--------------	--------------------

13. CERTIFICATION. (Must be completed by applicant) THE APPLICANT UNDERSTANDS THAT ALL STATEMENTS AND REPRESENTATIONS MADE IN THIS APPLICATION ARE BINDING UPON THE APPLICANT.

THE APPLICANT AND ANY OFFICIAL EXECUTING THIS CERTIFICATION ON BEHALF OF THE APPLICANT, NAMED IN ITEM 2, CERTIFY THAT THIS APPLICATION IS PREPARED IN CONFORMITY WITH TITLE 10, CODE OF FEDERAL REGULATIONS, PARTS 30, 32, 33, 34, 35, 38, 39, AND 40, AND THAT ALL INFORMATION CONTAINED HEREIN IS TRUE AND CORRECT TO THE BEST OF THEIR KNOWLEDGE AND BELIEF.

WARNING: 18 U.S.C. SECTION 1001 ACT OF JUNE 25, 1948 62 STAT. 749 MAKES IT A CRIMINAL OFFENSE TO MAKE A WILLFULLY FALSE STATEMENT OR REPRESENTATION TO ANY DEPARTMENT OR AGENCY OF THE UNITED STATES AS TO ANY MATTER WITHIN ITS JURISDICTION.

CERTIFYING OFFICER - TYPED/PRINTED NAME AND TITLE

José L. Irizarry-Rosa, MCE, PE, RSO - President

SIGNATURE 

DATE **01/23/2008**

FOR NRC USE ONLY

TYPE OF FEE	FEE LOG	FEE CATEGORY	AMOUNT RECEIVED \$	CHECK NUMBER	COMMENTS
APPROVED BY				DATE	

141659

APPENDIX M

ITEMS 5 AND 6: MATERIALS TO BE POSSESSED AND USES

Yes	No	Radioisotope	Model No.	Quantity	Use As Listed on SSD Certificate	Specify Other Uses Not Listed on SSD Certificate
<input checked="" type="checkbox"/>		Cesium-137	Sealed source manufacturer or distributor and model number: CPN Int., Inc. Model CPN-131 Device manufacturer or distributor and model number: CPN Int., Inc. Model CPN-131	Not to exceed either the maximum activity per source or maximum activity per device as specified in Sealed Source and Device Registration (SSDR) Certificate	Yes <input type="checkbox"/> Specific description of the gauge use: _____ _____ _____	<input type="checkbox"/> Not applicable <input type="checkbox"/> Uses are: _____
<input checked="" type="checkbox"/>		Americium-241	Sealed source manufacturer or distributor and model number: CPN Int., Inc. Model CPN-131 Device manufacturer or distributor and model number: CPN Int., Inc. Model CPN-131	Not to exceed either the maximum activity per source or maximum activity per device as specified in SSDR Certificate	Yes <input type="checkbox"/> Specific description of the gauge use: _____ _____ _____	<input type="checkbox"/> Not applicable <input type="checkbox"/> Uses are: _____
	<input checked="" type="checkbox"/>	Californium-252	Sealed source manufacturer or distributor and model number: _____ Device manufacturer or distributor and model number: _____	Not to exceed either the maximum activity per source or maximum activity per device as specified in SSDR Certificate	Yes <input type="checkbox"/> Specific description of the gauge use: _____ _____ _____	<input type="checkbox"/> Not applicable <input type="checkbox"/> Uses are: _____

APPENDIX M

Yes	No	Radioisotope	Model No.	Quantity	Use As Listed on SSD Certificate	Specify Other Uses Not Listed on SSD Certificate
	<input checked="" type="checkbox"/>	Other Isotope (Specify):	Sealed source manufacturer or distributor and model number: <hr/> Device manufacturer or distributor and model number: <hr/>	Not to exceed either the maximum activity per source or maximum activity per device as specified in SSDR Certificate	Yes <input type="checkbox"/> Specific description of the gauge use: <hr/> <hr/> <hr/> <hr/>	<input type="checkbox"/> Not applicable <hr/> <input type="checkbox"/> Uses are:
<i>Financial Assurance Required and Evidence of Financial Assurance Provided</i>						

APPENDIX M

ITEMS 7 THROUGH 11: TRAINING AND EXPERIENCE, FACILITIES AND EQUIPMENT, RADIATION SAFETY PROGRAM, AND WASTE MANAGEMENT

ITEM NUMBER AND TITLE	SUGGESTED RESPONSE	APPLICANT'S RESPONSE			
		YES	NO	OTHER	
				YES	NO
<p>ITEM 7 INDIVIDUAL(S) RESPONSIBLE FOR RADIATION SAFETY PROGRAM AND THEIR TRAINING AND EXPERIENCE – RADIATION SAFETY OFFICER</p> <p>NAME José L. Irtzerry-Roma</p>	<p>Before obtaining licensed materials, the proposed RSO will have successfully completed one of the training courses described in Criteria in the section entitled "Individual(s) Responsible for Radiation Safety Program and Their Training and Experience – Radiation Safety Officer" in NUREG-1556, Vol. 1, Rev. 1, dated November 2001.</p> <p style="text-align: center;"><i>Optional Response</i></p> <p>Criteria for Acceptable Training Courses for Radiation Safety Officer/Portable Gauge Users</p> <p>Course Content</p> <ul style="list-style-type: none"> • 1.5 to 2 hours of radiation safety and regulatory requirements; • 1.5 to 2 hours practical explanation of gauge theory and operation (including test runs). <p>Course Examination</p> <ul style="list-style-type: none"> • 25- to 50-question written (closed book) test – 70 percent grade. <p>Course Instructor Qualifications</p> <ul style="list-style-type: none"> • Bachelor's degree in a physical or life science or engineering with successful completion of both a portable gauge user course and 8-hour radiation safety course and 8 hours hands-on of experience with portable gauges. <p style="text-align: center;">OR</p>	<input checked="" type="checkbox"/>			

APPENDIX M

ITEM NUMBER AND TITLE	SUGGESTED RESPONSE	APPLICANT'S RESPONSE			
		YES	NO	OTHER	
				YES	NO
ITEM 7 (CONTINUED)	<ul style="list-style-type: none"> • An individual with the following training: <ul style="list-style-type: none"> — Successful completion of portable gauge user course; — Successful completion of 40-hour radiation safety course; — 30 hours of hands-on experience with portable gauges. 				
ITEM 8 TRAINING FOR INDIVIDUALS WORKING IN OR FREQUENTING RESTRICTED AREAS	<p>Before using licensed materials, authorized users will have successfully completed one of the training courses described in Criteria in the section entitled "Training for Individuals Working In or Frequenting Restricted Areas" in NUREG-1556, Vol. 1, Rev. 1, dated November 2001.</p> <p style="text-align: center;"><i>Optional Response</i></p> <p>Review optional response against criteria listed under Item 7.</p>	<input checked="" type="checkbox"/>			
ITEM 9 FACILITIES AND EQUIPMENT	No information needs to be submitted in response to this item; key issues are addressed under "Radiation Safety Program – Public Dose" and "Radiation Safety Program – Operating and Emergency Procedures."	Separate Item 9 Response Need Not Be Submitted With Application			
ITEM 10 RADIATION SAFETY PROGRAM – AUDIT PROGRAM	The applicant is <i>not</i> required to, and should not, submit its audit program to NRC for review during the licensing phase.	Need Not Be Submitted With Application			
ITEM 10 RADIATION SAFETY PROGRAM – TERMINATION OF ACTIVITIES	The applicant is <i>not</i> required to submit a response to the termination of activities section during the initial application. However, when the license expires or at the time the licensee ceases operations, NRC Form 314 must be submitted.	Need Not Be Submitted With An Individual With the Following Training			
ITEM 10 RADIATION SAFETY PROGRAM – INSTRUMENTS	<p>We will either possess and use, or have access to and use, a radiation survey meter that meets the Criteria in the section entitled "Radiation Safety Program – Instruments" in NUREG-1556, Vol. 1, Rev. 1, dated November 2001, in the event of an incident.</p> <p style="text-align: center;"><i>Optional Response</i></p> <p>A radiation survey meter should satisfy the following criteria:</p> <ul style="list-style-type: none"> • Be capable of detecting gamma radiation; • Be checked for functionality before use. 	<input checked="" type="checkbox"/>			

APPENDIX M

ITEM NUMBER AND TITLE	SUGGESTED RESPONSE	APPLICANT'S RESPONSE			
		YES	NO	OTHER	
				YES	NO
ITEM 10 RADIATION SAFETY PROGRAM – MATERIAL RECEIPT AND ACCOUNTABILITY	<p>Physical inventories will be conducted at intervals not to exceed 6 months, to account for all sealed sources and devices received and possessed under the license.</p> <p><i>Optional Response</i> Frequency and procedures to ensure no gauge is lost, stolen or misplaced, and if possession exceeds threshold, comply with financial assurance requirements in 10 CFR 30.35.</p>	<input checked="" type="checkbox"/>			
ITEM 10 RADIATION SAFETY PROGRAM – OCCUPATIONAL DOSIMETRY	<p>Either we will maintain, for inspection by NRC, documentation demonstrating that unmonitored individuals are not likely to receive a radiation dose in excess of 10 percent of the allowable limits in 10 CFR Part 20 or we will provide dosimetry processed and evaluated by an NVLAP-approved processor that is exchanged at a frequency recommended by the processor.</p> <p><i>Optional Response</i> Alternative response demonstrates compliance with 10 CFR Part 20 requirements.</p>	<input checked="" type="checkbox"/>			
ITEM 10 RADIATION SAFETY PROGRAM – PUBLIC DOSE	The applicant is <i>not</i> required to submit a response to public dose section during the licensing phase. This matter will be examined during an inspection.	Need Not Be Submitted With Application			

APPENDIX M

ITEM NUMBER AND TITLE	SUGGESTED RESPONSE	APPLICANT'S RESPONSE			
		YES	NO	OTHER	
				YES	NO
ITEM 10 RADIATION SAFETY PROGRAM - OPERATING & EMERGENCY PROCEDURES	<p>We will implement and maintain the operating and emergency procedures in Appendix H of NUREG-1556, Vol. 1, Rev. 1, dated November 2001 and provide copies of these procedures to all gauge users and at each job site.</p> <p style="text-align: center;">OR</p> <p>Operating and emergency procedures will be developed, implemented, and maintained and will meet the criteria in the section entitled "Radiation Safety Program - Operating and Emergency Procedures" in NUREG-1556, Vol. 1, Rev. 1, dated November 2001.</p> <p style="text-align: center;"><i>Optional Response</i></p> <ul style="list-style-type: none"> • Instructions to use gauge and perform routine maintenance per manufacturer's recommendations and instructions; • Instructions to maintain security during storage and transportation; • Instructions to keep the gauge under control and immediate surveillance during use; • Steps to take to keep radiation exposures ALARA; • Steps to maintain accountability during use; • Steps to control access to damaged gauge; • Steps to take, and whom to contact, when a gauge has been damaged; • If gauges are used for measurements greater than 3 feet beneath the surface: use of surface casing or other procedures to ensure free movement of source in hole; instructions, procedures to retrieve a stuck source; NRC reporting requirements; • Copies provided to personnel and available at each job site. 	<input checked="" type="checkbox"/>			

APPENDIX M

ITEM NUMBER AND TITLE	SUGGESTED RESPONSE	APPLICANT'S RESPONSE			
		YES	NO	OTHER	
				YES	NO
ITEM 10 RADIATION SAFETY PROGRAM - LEAK TEST	<p>Leak tests will be performed at intervals approved by NRC or an Agreement State and will be specified in the SSDR Sheet. Leak tests will be performed by an organization authorized by NRC or an Agreement State to provide leak testing services for other licensees or using a leak test kit supplied by an organization authorized by NRC or an Agreement State to provide leak test kits to other licensees and according to the kit supplier's instructions.</p> <p>Optional Response Provide the information in Appendix J supporting a request to perform leak testing and sample analysis:</p> <ul style="list-style-type: none"> • Individual who will make the analysis; qualifications to make quantitative measurements; • Leak test frequency as specified in the appropriate SSDR Sheet; • How and where test samples taken; materials to be used; methods of handling samples to prevent or minimize exposure to personnel; • Type of instrument(s) used, counting efficiency, and minimum levels of detection for each radionuclide. <p><i>Note: An instrument capable of making quantitative measurements should be used; hand-held survey meters will not normally be considered adequate for measurements.</i></p> <ul style="list-style-type: none"> • Standard calibration sources including for each: the radionuclide, quantity, accuracy, and traceability to primary radiation standards; <p><i>Note: Accuracy of standards should be within ±5 percent of the stated value and traceable to a primary radiation standard such as those maintained by the National Institutes of Standards and Technology (NIST).</i></p> <ul style="list-style-type: none"> • Sample calculation to convert measurement data to becquerels (or microcuries); • Instructions on actions, notifications regarding leaking source. 	<input checked="" type="checkbox"/>			

APPENDIX M

ITEM NUMBER AND TITLE	SUGGESTED RESPONSE	APPLICANT'S RESPONSE			
		YES	NO	OTHER	
				YES	NO
ITEM 10 RADIATION SAFETY PROGRAM - MAINTENANCE	<p><i>Routine Cleaning and Lubrication</i></p> <p>We will implement and maintain procedures for routine maintenance of our gauges according to each manufacturer's recommendations and instructions.</p> <p><i>Optional Response</i></p> <ul style="list-style-type: none"> • Considers ALARA; • Ensures gauge functions as designed; • Ensures source integrity not compromised. <p><i>Non-Routine Maintenance</i></p> <p>We will send the gauge to the manufacturer or other person authorized by NRC or an Agreement State to perform non-routine maintenance or repair operations that require the removal of the source or source rod from the gauge.</p> <p><i>Optional Response</i></p> <p>Provide the information listed in Appendix G supporting a request to perform non-routine maintenance in-house.</p> <ul style="list-style-type: none"> • Types of work to be performed; • Who will perform maintenance, training, experience, why competent; • Handling procedures: doses to public, personnel ALARA and regulatory limits; security; posting; manufacturing instructions and recommendations; • Use of whole-body and extremity monitoring or evaluation to demonstrate that individuals are not likely to receive greater than 10 percent of allowable limits; • Possess survey instrument (detects gamma radiation; range 1-50 mrem/hr; annual calibration w/point source at 2 points/scale; readings within ± 20 percent; calibrated by NRC/Agreement State licensee; checked before use); • 10 CFR 20.1301 surveys (when and where instrument survey performed, records for 3 years). 	<input checked="" type="checkbox"/>			
		<input checked="" type="checkbox"/>			

APPENDIX M

ITEM NUMBER AND TITLE	SUGGESTED RESPONSE	APPLICANT'S RESPONSE			
		YES	NO	OTHER	
				YES	NO
ITEM 10 RADIATION SAFETY PROGRAM - TRANSPORTATION	The applicant is <i>not</i> required to submit a response to transportation section during the licensing process. However, this issue will be reviewed during inspection.	Need Not Be Submitted With Application			
ITEM 11 WASTE DISPOSAL - GAUGE DISPOSAL AND TRANSFER	The applicant is <i>not</i> required to submit a response to waste management section during the licensing process. However, the licensee should develop, implement, and maintain gauge transfer and disposal procedures in its radiation safety program.	Need Not Be Submitted With Application			

This is to acknowledge the receipt of your letter/application dated

LTA
1/24/2008 / 070 1/23/2008 / *NAC 713*
and to inform you that the initial processing which includes an administrative review has been performed.

AMEND. 52-24902-02
There were no administrative omissions. Your application was assigned to a technical reviewer. Please note that the technical review may identify additional omissions or require additional information.

Please provide to this office within 30 days of your receipt of this card

A copy of your action has been forwarded to our License Fee & Accounts Receivable Branch, who will contact you separately if there is a fee issue involved.

Your action has been assigned **Mail Control Number** *141659*.

When calling to inquire about this action, please refer to this control number. You may call us on (610) 337-5398, or 337-5260.